

Heat Treatment and Mechanical Properties in 180SKhNM-
Steel, by A. E. Krivosheev.
RUSSIAN, per, Stal', No 5, 1972, pp 444-446.
BISI 10601

Nov 72

Increasing the Life of the Rolls of a 3000 Plate
Mill, by A. E. Krivosheev.
RUSSIAN, per, Stal', No 5, 1972, pp 431-432.
BISI 10600

Nov 72

System of Pass Design of Angle Sections, by
A. V. Mayakin.
RUSSIAN, per, Stal', No 5, 1972, pp 430-431.
BISI 10599

Oct 72

Perfecting the Technology of Smelting Low-
Phosphorus Manganese Slag, by V. S. Kudryavtsev.
RUSSIAN, per, Stal', No 5, 1972, pp 419-421.
BISI 10597

Oct 72

Investigation of the Quality of Oxygen Converter
Bulb-Strip 09G2 Steel, by V. L. Gutorova.
RUSSIAN, per, Stal', No 5, 1972, pp 411-412.
BISI 10596

Nov 72

Plasma Guniting of a Converter Lining, by
H. S. Tarnavskii.
RUSSIAN, per, Stal', No 5, 1972, pp 411.
BISI 10595

Nov 72

The Firing of an Open Hearth Furnace With
Changes in the Angle of Inclination of the
Flame During the Periods of the Heat, by
I. G. Kobeza.
RUSSIAN, per, Stal', No 5, 1972, pp 409-411.
BISI 10594

Nov 72

The Decarburization of Metal With Intensive
Blowing of the Converter Bath With Oxygen Through
Lances of Various Types, by K. A. Blinov.
RUSSIAN, per, Stal', No 5, 1972, pp 407-408.
BISI 10593

Oct 72

Properties of Highly Basic Magnesia-Containing
Sinters, by S. V. Bazilevich.
RUSSIAN, per, Stal', No 5, 1972, pp 397-401.
BISI 10592

Oct 72

Elimination of the 'rupture' defect on
galvanized strip, by D.L. Grinberg et al.
RUSSIAN, per, Stal', 1972, No. 4, pp359-60
BISI 10461

dec 72

Optimum Composition of Vanadium High Speed Steels,
by Yu. A. Geller.
RUSSIAN, per, Stal' No 4, 1972, pp 355-357.
BISI 10550

Oct 72

Air-Water Mixture, Mid-Campaign Cleaning of Open
Hearth Furnace Checkerwork, by I. S. Timoshpol'skii.
RUSSIAN, per, Stal', No 4, 1972, pp 316-317.
BISI 10458

Oct 72

Relationship Between the Extent to Which Oxygen
is Utilized and the Height to Which the Lance
is Raised Above the Bathe When Injecting an Open
Hearth Bath, by F. I. Bashlil.
RUSSIAN, per, Stal, No 4, 1972, pp 308-310.
BISI 10457

Oct 72

Effect of Physical and Chemical Properties of
Wetting Agents on Gas Permeability of Blast-Furnace
Burdens, by V. A. Martynenko.
RUSSIAN, per, Stal', No 4, 1972, pp 302-303.
BISI 10549

Oct 72

Economics of the Complete Combined Processing of
Blast-Furnace Slags, by A. G. Romanenko.
RUSSIAN, per, Stal', No 4, 1972, pp 299-301.
BISI 10456

Oct 72

Assessing the Effectiveness of the Automatic
Control of the Thermal Conditions in Blast-Furnace
Operation, by V. A. Ulakhovich.
RUSSIAN, per, Stal', No 4, 1972, pp 295-297.
BISI 10455

Oct 72

Okenko, A. P.

The Nature of Small Cracks in Dressed Semi-Products
of Kh23N13 Steel.

STAL, No 3, p 267, 1972.

BISI-10398

Feb 73

Measurement and Automatic Control of the Tube
Wall Thickness on a 20-102 Electric Welding
Unit, by V.A. Ovobotenko,
RUSSIAN, per. Stal', No 3, 1972, pp 250-255.
BISI 10396

Sep 72

Deformations and Stresses During the Rolling
of Oval Rolled Stock in Round Pass Grooves,
by Yu. P. Litvinenko,
RUSSIAN, per. Stal', No 3, 1972, pp 246-249.
BISI 10395

Sep 72

The Amount of Solid Oxidant to be Charged
During the Blowing of an Open Hearth Furnace
with Oxygen, by G.A. Podolskaya,
RUSSIAN, per. Stal', No 3, 1972, pp 218-220.
BISI 10391.

Sep 72

Refining of Open Hearth Steel with Synthetic
Lime-Alumina Slags Containing a High Content,
by V.K. Komel'kov,
RUSSIAN, per. Stal', No 3, 1972, pp 216-218.
BISI 10390

Sep 72

Increasing and Improving Steel Production in
1971-1975, by I. P. Kazanets, 15 pp.
RUSSIAN, per, Stal', Moscow, No 3, 1972, pp 193-
198.
JPRS 55926

May 72

Research into the Force Parameters of
Drawing Wire with Torision, by S.P. Burkin,
RUSSIAN, per. Stal', No 2, 1972, pp 182-183.
BIS/10314

Jul 72

Electric Arc Reformer for the Fueling of OH
Furnaces, by Yu.G. Strel'chenko,
RUSSIAN, per. Stal', No 2, 1972, pp 177-178.
BISI 103₁₃

Jul 72

Influence of Structural State on Crack Propagation Energy in Low Alloy Steels,
by L.S. Livshits,
RUSSIAN, per. Stal', No 2, 1972, pp 167-169.
BISI 10312

Jul 72

Modifications of Defects of Hot-Rolled Tubes
as a Result of Cold-Working, by G.D. Duplii,
RUSSIAN, per. Stal', No 2, 1972, pp 151-153.
BISI 10311

Sep 72

Rolling Radius When Rolling in Passes,
by A.I. Grishkov,
RUSSIAN, per. Stal', No 2, 1972, pp 144-146.
BISI 10310

Jul 72

Change in the Longitudinal Gauge Variation of
the Strip in a Wide Strip Mill During a Variable
Speed Procedure, by B.A. Tsifrinovich,
RUSSIAN, per. Stal', No 2, 1972, pp 137-140.
BISI 10321

Jul 72

Properties and Breakdown of Pellets During
Reduction in a Shaft Furnace, by
G.A. Bachinina,
RUSSIAN, per. Stal', No 2, 1972, pp 97-101.
BISI 10319

Sep72

Volume-Scheduling of the Production of Cold-
Worked Tubes, by A.M. Vainzof,
RUSSIAN, per. Stal', No 1, 1972, pp 84-86.
BISI 10253

Jul 72

The Effect of Additions on the Formation of
the Structure of 68Yu Steel Thin Sheet
Rolled Stock, by B.S. Natapov,
RUSSIAN, per Stal', No 1, 1972, pp 82-83.
BISI 10252

Jul 72

Influence of Alloying Elements on the Structure
and Properties of Low Alloy Steels With Nitrogen
and Vanadium, by L. I. Gladshtein.
RUSSIAN, per, Stal', No 1, 1972, pp 74-79.
BISI 10251

Oct 72

Improvement in the Bulb-Strip Steel Rolling
Process, by D.I. Starchenko,
RUSSIAN, per. Stal', No 1, 1972, pp 65-66.
BISI 10250

Aug 72

Improving the Surfaces of Plates, by A.A. Parsh
in,
RUSSIAN, per. Stal', No 1, 1972, pp 62-63.
BISI 10249

June 72

Industrial Lubricant for the Cold-Rolling of
Tinplate, by A.F. Pimenov,
RUSSIAN, per. Stal', No 1, 1972, pp 59-62.
BISI 10248

Aug 72

Yield of Molten Steel from Open-Hearth
Furnaces increased by Improving the Slag
Conditions, by L.S. Rybakov,
RUSSIAN, per. Stal', No 1, 1972, p 48.
BISI 10247

Jul 72

The Melting of Low Temperature Open Hearth Steel
1 (17GS Grade) Deoxidized Without Silicon,
by S.M. Baranov,
RUSSIAN, per. Stal', No 1, 1972, p 40.
BISI 10245

Jul 72

Equipment for the Coal-Dust Line and Blast-
Furnace Operating Conditions with Coal-Dust
and Natural-Gas Injection, by G.A. Panev,
RUSSIAN, per. Stal', No 1, 1972, pp 10-14.
BISI 10224

Jul 72

Investigation of the Thermo-Technological
Parameters of Laminar and Jet Systems of
Cooling Sheet on a 2000 Continuous Wide
Sheet, by V.I. Zyuzin.
RUSSIAN, per, Stalk, 1971, (12) 1128-1131
BISI 10147

July 72

Experience in the Production of Cryogenic
Pipe from Refined Nitride Hardened Steel, by
E. S. Kalinnikov.
RUSSIAN, per, Stal, ~~№~~ 1971, (12), pp. 1115-
1118.
BISI 10146

July 72

The Protection of Slag Pocket Linings from
the Action of ~~Sag~~, by B.A. Sharov.
RUSSIAN, per, Stal, 1071, (12), p. 1082.
BISI 10144

July 72

The Use of Alumina Sinter and Iron Ore Pellets
in Open Hearth Melting, by V.N. Letimin,
RUSSIAN, per. Stal', No 12, 1971, pp 1080.
BISI 10143

June 72

Investigating the Return-Fines Regime Under
Production Conditions, by A.G. Astakhov and
V.I. Kirillov.
RUSSIAN, per, Stal, 1971, (12), pp. 1065-69.
BISI 10142

July 72

N. N. Nesterova

The Production of Tubes Form High-Alloy Steels
Using Cast Ingots

STAL, No 11, 1971, pp 1029-1030.

BISI-72-60870-13H

Feb 1973

Ya. S. Shvartsbart

Calculation of the yield stress, allowing for the law
of development of deformation with time in hot-rolling
RUSSIAN, per, Stal', No 11, 1971, pp 1020-1023
BISI 10023

NTC 72-60789-11F

may 72

V. A. Nikolayev

Investigation of the contact stresses during the
passage of the weld joint through the deformation
zone by the optical polarised light method.
RUSSIAN, per, Stal', No 11, 1971, pp 1012-1017
BISI 10022
NTC 72-60788-11F

may 72

L. L. Levin

V. G. Manchinskiy

Viscosity and desulphurizing capacity of high-alumina
magnesia-bearing blast-furnace slags

RUSSIAN, per, Stal', No 11, 1971, pp 977-984

BISI 10019

NTC 72-60786-11F

may 72

RUSSIAN

*Comp. Special**6 pp.*CBO: 0116/73 W
17 Jul 72 BF

Effect of the decomposition of the solid solution
on the ductility of heat-resistant alloys during
hot working, by S. N. Birman, et. al.

Moscow, Stal', No 10, 1972, pp 945-946.

Ad Hoc

Spec type B

Do not publish

Original plus four copies - including reproductions.

Doc may be clipped.

M. L. Zaitsev

Determination of the Power and Force Parameters
During Rolling in Passes.

RUSSIAN, per, Stal, No 10, 1971, pp 922-925.

Order from BISI as BISI 9993

NTC 72-60726-13H

Nov 72

Raising the Quality of Foundry Pig Iron, by
N. A. Voronova.
RUSSIAN, per, Stal', No 10, 1971, pp 885-887.
BISI 9991

Jan 73

A. I. Ivanov

Optimum Moisture Content of a Sintering
Mixture.

RUSSIAN, per, Stal, No 10, 1971, pp 879-881

Order from BISI as BISI 9990

NTC 72-60724-11F

Nov 72

The Drawing of Heat-Resistant Steel Wire in
Roller Draw Plates with the System Round-
Oval-Round, by I.K. Nikolaev,
RUSSIAN, per. Stal', No 9, 1971, pp 860-861.
BISI 9896

Mar 72

Production of High Strength Hardened and
Tempered Steel with a Yield Strength of
60kg/mm² for Welded Structures,
by V.N. Nikitin,
RUSSIAN, per. Stal', No 9, 1971, pp 836-838.
BISI 9895

Mar 72

Investigation of the Relationship Between Converter Lining Life and Steelmaking Practice and Refractory Quality, by I. D. Chigrai, RUSSIAN, per. Stal, No 9, 1971, pp 798-801. BISI 9890

Apr 72

Study of the Temperature and Gas Regime for
Firing Pellets on the Krivoi-Rog Central
Mining-Benefication Combine (TsGOK) Firing
Machine and Their Properties,
by F.M. Zhuravlev,
RUSSIAN, per. Stal', No 9, 1971, pp 777-780.
BISI 9889

Apr 72

A. A. Ahtaf'ev

*Reduction of hydrogen embrittlement in tube steel
during pickling by treatment with direct current.*
RUSSIAN, Stal, No 8, 1971, pp 749-751
DISI trans 9791

july 72

V. M. Ivashchenko

The Cutting of High-Strength Rolled Stock.

RUSSIAN, per, Stal, No 8, 1971, p 742

NTC 72-60353-13H

sept 72

Yu. V. Gerasimov

Molten High-Chromium Metal Vacuum-Blown With
Argon.

RUSSIAN, per, Stal, No 8, 1971, pp 731-732

NTC 72-60340-11F

sept 72

Svekrov, V. M.

Optimum Parameters of Milling Cutters for Dressing
Metal in the Rolling Line.

STAL, No 8, pp 730-733, 1971.

BISI-9789

Feb 73

Economically Suitable Tension Schedule for
Tube Reduction, by M.F. Stoletni,
RUSSIAN, per. Stal', No 7, 1971, pp 636-639.
BISI 9748

NTC 72 -60148 -13H

Jan 72

V. A. Mohedishili

Oxide Inclusions in Ferrotitanium and
Ferroniobium,
RUSSIAN, per, Stal, No 7, 1971, pp 614-615
NYC 72-60349-11F

sept 72

Modelling the Process by Which Nozzles are
Blocked Up or Frozen During the Continuous
Casting of Steel, by N.M. Lapotyshkin,
RUSSIAN, per. Stal, No 7, 1971 , pp 604-606
BISI 9745

Feb 72

Metallurgical Science in New Five-Year Plan, by
I. N. Golikov, 9 pp.
RUSSIAN, per, Stal', Moscow, No 7, 1971, pp 577-
581.
JPRS 54099

Sept 71

Structure and Properties of Nickel Base
Alloy EP487 Melted by Different Methods,
by L. M. Zimina.

RUSSIAN, per, Stal, No 6, 1971, pp 547-
549.

NTC 72-60140-11F

BISI 9663

June 72

Influence of Certain Processing Factors
on the Properties of Cold-Rolled 08Yu
Non-Ageing Steel, by V. S. Dyakonova.
RUSSIAN, per, Stal, No 6, 1971,
pp 543-546.
NTC 72-11550-11F

June 72

D. E. Likhtenshtein

Elimination of Wall-Thickness Variation in
the Turning of Tubes.

RUSSIAN, per, Stal, No 6, 1971, pp 536-537

NTC 72-60323-13H

sept 72

The Part Played by Surface Roughness in Prevent-
ing Welding During Annealing and Contamination
of Cold Rolled Strip, by A. P. Chekmarev,
RUSSIAN, per. Stal', No 6, 1971, pp 532-533.
BISI 9661

Nov 71

The Effect of Different Surface Roughnesses
on Either Side of Cold Rolled Sheet Steel on
Its Properties, by A. P. Chekmarev,
RUSSIAN, per. Stal', No 6, 1971, pp 530-532.
BISI 9675

June 72

I. S. Trishevskii

Features of the Pass Design of Rolls For
Sections With Periodically Repeating Cor-
rugations.

RUSSIAN, per, Stal, No 6, 1971, pp 523-526
NTC 72-60322-13H

sept 72

Plasma Arc Furnaces with Water-Cooled Copper
Moulds, by B.E. Paton,
RUSSIAN, per. Stal', No 6, 1971, pp 507-511.
BISI 9674

NTC 72-60143-134

Jan 72

Analysis of Service Conditions for Specially Shaped
Steel Ropes on Multi Rope Hoists, by V. G. Molnar.
RUSSIAN, per, Stal, No 5, 1971, pp 473.
BISI 9569

Nov 71

Phase Transformations in Heat Treated Steel E1961
Under Prolonged Treatment at High Temperature, by
I. S. Kalashnikov, et al.
RUSSIAN, per, Stal, No 5, 1971, pp 453-454.
BISI 9570

Nov 71

Development of a Technology for Producing Tungsten -
Vanadium Steel Slabs, by V. A. Gamershtein, et al.
RUSSIAN, per, Stal, No 5, 1971, pp 435-6.
BISI 9571

Nov 71

Deformation Rate During Two-Dimensional Rolling, by
N. A. Chelyshev, et al.
RUSSIAN, per, Stal', No 5, 1971, pp 427-429.
BISI 9572

Nov 71

Probability Analysis of Longitudinal Thickness
Variation in Rolled Light Gauge Sheet, by S. L. Kotsar',
et al.
RUSSIAN, per, Stal, No 5, 1971, pp 423-426.
BISI 9573

Nov 71

The Phase Composition of ANF - 6 Slags and Their
Interaction With Non Metallic Inclusions of
Various Types, by T. F. Raichenko, et al.
RUSSIAN, per, Stal' No 5, 1971, pp 417-419.
BISI 9574

Nov 71

Effect of Technological Factors on the Oxygen Content
of Steel, by F. I. Bashlil, et al.

RUSSIAN, per, Stal', No 5, 1971, pp 411-413.

BISI 9575

Nov 71

Increasing the Life of the Monolithic Hearths
of Controlled-Cycle Furnaces of Sheet-Rolling
Mills, by A.G. Marants,
RUSSIAN, per. Stal', No 4, 1971, pp 368-372.
BISI 9463

Sep 71

New Method of Roll Hardening Railroad Rails,
by V.K. Kobyzev,
RUSSIAN, per. Stal', No 4, 1971, pp 337-340.
BISI 9457

Sep 71

The Casting of Killed Steel in Big End Down
Ingot Moulds with Lined Upper Portions,
by A.D. Filatov,
RUSSIAN, per. Stal', No 4, 1971, pp 317-320.
BISI 9460

Sep 71

Possibilities of Controlling the Technological
Parameters of Slag-Melt Processing,
by V. S. Grigor,
RUSSIAN, per. Stal', No 3, 1971, p 284-.
BISI 9439

Aug 71

Distribution of Non-Metallic Inclusions in
the Structure of Cast Steel, by
A.D. Kramarov,
RUSSIAN, per. Stal', No 3, 1971, pp 262-263.
BISI 9438

Aug 71

Improving the Life of Mill Rolls of ESR 9Kh -
Steel by High Temperature Thermomechanical
Surface Treatment, by M. Ya. Belkin,
RUSSIAN, per. Stal', No 3, 1971, pp 260-262.
BISI 9440

Aug 71

Improving the Cooling of the Rolls in Continuous Cold Rolling Mills, by V.G. Dodoka, RUSSIAN, per. Stal', No 3, 1971, pp 249-250. BISI 9427

Aug 71

Study of the Technique of Galvanized Steel
Sheet Passivation, by V.N. Denezhkov,
RUSSIAN, per. Stal', No 3, 1971, pp 247-248.
BISI 9430

Sep 71

Determination of Deformation Rate When Rolling
in Passes, by M.L. Zaitsev and G.V. Anufriev,
RUSSIAN, per. Stal', No 3, 1971, pp 241-243.
BISI 9428

Sep 71

The Effect of a Granulated Flux on the Quality
of Electroslag Steel, by N.F. Yakovlev,
RUSSIAN, per. Stal', No 3, 1971, p 231-
BISI 9429

Aug 71

Heat Exchange in the Secondary Cooling Zone
in Continuous Casting, by V.E. Kozin,
RUSSIAN, per. Stal', No 3, 1971, pp 226-228.
BISI 9441

Aug 71

Non Metallic Inclusions and Gases in 20KhG2Ts
Steel, by V.N. Knyazev,
RUSSIAN, per. Stal', No 3, 1971, pp 223-226,
BISI 9442

Sep 71

Dust Formation and Technological Parameters of
100- Tonne Basic Oxygen Converters, by
E.A. Krichevtsov,
RUSSIAN, per. Stal', No. 3, 1971 , pp 214-218.
BISI 9443

Sep 71

Degree of Utilization of Hydrogen in Blast
Furnaces, by G.N. Suntsov and N.V. Pribavin,
RUSSIAN, per. Stal', No 3, 1971, pp 203-205.
BISI 9444

Sep 71

Petrographic Investigation of Large Globular
Inclusions in ShKh 15 Steel, by T.I. Litvinova,
RUSSIAN, per. Stal', No 2, 1971, pp 166-167.
BISI 9377

Sep 71

Production of High-Strength Tubes at Azer-
baidzhansk Tube-Rolling Works, by G.N. Kheifets,
RUSSIAN, per. Stal', No 2, 1971, pp 159-161.
BISI 9376

Aug 71

Double and Triple Ingot Rolling on the Slab-
bing Mill, by M.I. Kapustina,
RUSSIAN, per. Stal', No 2, 1971, pp 150-152.
BISI 9375

Aug 71

The Rolling of Round Billets on a Continuous
Billet Mill, by I.K. Lind,
RUSSIAN, per. Stal', No 2, 1971, pp 147-148.
BISI 9374

Aug 71

Analysis of Some Factors Influencing the Consumption of Metal when Rolling Plate, by B. Yu. Zelechenok,
RUSSIAN, per. Stal', No 2, 1971, pp 139-142.
BISI 9373

Jul 71

Vacuum-Arc Remelting of Constructional Steels
in Large Moulds and the Quality of the Metal',
by N.K. Zhitkov,
RUSSIAN, per. Stal', No 2, 1971, pp 130-132.
BISI 9372

Aug 71

The Mechanism of the Effect of Gas Pressure
on the Process in the Steelmaking Bath,
by V.L. Lokhimovich,
RUSSIAN, per. Stal', No 2, 1971, pp 120-123.
BISI 9371

Aug 71

Investigation of the Quality of Lime Used in
Basic Oxygen Converters, by V.V. Smoktii,
RUSSIAN, per. Stal', No 2, 1971, pp 118-120.
BISI 9370

Aug 71

Investigation of the Structure of Fluxed
Sinter from Kursk-Magnetic-Anomaly (KMA) Ores,
by A.N. Spektor,
RUSSIAN, per. Stal', Vol 2, 1971, pp 102-106.
BISI 9369.

Aug 71